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## FACSIMILE COVER SHEET

Date: <b>July 27, 2001</b>	Client & Matter Number : <b>02307E-088610US</b>	No. Pages (including this one): <b>6</b>
To: <b>Examiner Michael Brannock, Ph.D. Art Unit 1646 - USPTO</b>	At Fax Number: <b>703-308-0294</b>	Confirmation Phone Number: <b>703-306-5876</b>
From : Annette S. Parent		(4184)

## Message:

Re: Application No. 09/361,652

For interview on August 2, 2001 at 3:00 p.m. EDT.

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SF 1252412 v1

**DRAFT CLAIMS FOR THE PURPOSES OF DISCUSSION**

To: Examiner Michael Brannock, Ph.D.

Fax number: 703-308-0294

Telephone number: 703-306-5876

Application No.: 09/361,652

Attorney docket number: 02307E-088610US

Please cancel claims 7, 9, and non-elected claims 19-33, and 36-60 without prejudice to subsequent revival.

Please amend claims 1, 10, 11, 14, 17, 61, 62, and 63 as follows.

1. (twice amended) An isolated nucleic acid encoding a sensory transduction G-protein coupled receptor, [the receptor comprising greater than about 70% amino acid identity to an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the nucleic acid encodes a receptor that specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

3. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a receptor that has G-coupled protein receptor activity.

4. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a receptor comprising an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3.

5. (as filed) The isolated nucleic acid sequence of claim 1, wherein the nucleic acid comprises a nucleotide sequence of SEQ ID NO:4, SEQ ID NO:5, or SEQ ID NO:6.

6. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid is from a human, a mouse, or a rat.

8. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a receptor having a molecular weight of about between 92 kDa to about 102 kDa.

10. (twice amended) An isolated nucleic acid encoding a sensory transduction G-protein coupled receptor, [the receptor comprising greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3,] wherein the nucleic acid selectively hybridizes under moderately stringent hybridization conditions[, which end with a wash step at 45°C in a solution comprising 1x SSC, to a nucleotide sequence of SEQ ID NO:4, SEQ ID NO:5, or SEQ ID NO:6] to a nucleotide sequence of SEQ ID NO:4, SEQ ID NO:5 or SEQ ID NO:6, wherein the hybridization reaction is incubated at 37°C in a solution comprising 40% formamide, 1M NaCl and 1% SDS and washed at 45°C in a solution comprising 1x SSC.

11. (twice amended) An isolated nucleic acid encoding an extracellular domain of a sensory transduction G-protein coupled receptor, [the extracellular domain having greater than about 70% amino acid sequence identity to amino acids 1-563 of SEQ ID NO:1, wherein the extracellular domain specifically binds to polyclonal antibodies generated against amino acids 1-563 of SEQ ID NO:1] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding amino acids 1-563 of SEQ ID NO:1, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

12. (as filed) The isolated nucleic acid of claim 11, wherein the nucleic acid encodes the extracellular domain linked to a nucleic acid encoding a heterologous polypeptide, forming a chimeric polypeptide.

13. (previously once amended) The isolated nucleic acid of claim 11, wherein the nucleic acid encodes amino acids 1-563 of SEQ ID NO:1.

14. (twice amended) An isolated nucleic acid encoding a transmembrane domain of a sensory transduction G-protein coupled receptor, [the transmembrane domain comprising greater than about 70% amino acid sequence identity to amino acids 563 to 812 of SEQ ID NO:1, wherein the transmembrane domain specifically binds to polyclonal antibodies generated against amino acids 563-812 of SEQ ID NO:1] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding amino acids 563-812 of SEQ ID NO:1, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

15. (as filed) The isolated nucleic acid of claim 14, wherein the nucleic acid encodes the transmembrane domain linked to a nucleic acid encoding a heterologous polypeptide, forming a chimeric polypeptide.

16. (previously once amended) The isolated nucleic acid of claim 14, wherein the nucleic acid encodes amino acids 563-812 of SEQ ID NO:1.

17. (twice amended) The isolated nucleic acid of claim 14, wherein the nucleic acid further encodes a cytoplasmic domain [comprising greater than about 70% amino acid identity to amino acids 812 to 840 of SEQ ID NO:1], wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding amino acids 812-840 of SEQ ID NO:1, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

18. (previously once amended) The isolated nucleic acid of claim 17, wherein the nucleic acid encodes amino acids 812 to 840 of SEQ ID NO:1.

34. (as filed) An expression vector comprising the nucleic acid of claim 1.

35. (as filed) A host cell transfected with the vector of claim 34.

61. (twice amended) A method of making a sensory transduction G-protein coupled receptor, the method comprising the step of expressing the receptor from a recombinant expression vector comprising a nucleic acid encoding the receptor, [wherein the amino acid sequence of the receptor comprises greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the receptor specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

62. (twice amended) A method of making a recombinant cell comprising a sensory transduction G-protein coupled receptor, the method comprising the step of transducing the cell with an expression vector comprising a nucleic acid encoding the receptor, [wherein the amino acid sequence of the receptor comprises greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the receptor specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

63. (twice amended) A method of making an recombinant expression vector comprising a nucleic acid encoding a sensory transduction G-protein coupled receptor, the method comprising the step of ligating to an expression vector a nucleic acid encoding the

receptor, [wherein the amino acid sequence of the receptor comprises greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the receptor specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

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